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SEARCH REQUEST FORM

15 46 73

Access DB#

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		(STIC)	•	
Requester's Full Name: Mou		Examiner # : 597		
Art Unit: 1641 Pho	ne Number 30 2 – 081	Serial Number	: PCT/US04/38640	
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If more than one search is su	ıbmitted, please prioi	ritize searches in order	r of need.	
Please provide a detailed statement of Include the elected species or structur utility of the invention. Define any te known. Please attach a copy of the co	es, keywords, synonyms, ac erms that may have a specia	cronyms, and registry number i meaning. Give examples or	rs, and combine with the concent or	-
Title of Invention:	niographi	and abstract.		
Inventors (please provide full name	s): Jee hillstreet of			
Earliest Priority Filing Date:	12/123	<u> </u>	<u> </u>	
For Sequence Searches Only Please in		on (parent, child, divisional, or	issued patent numbers) along with the	
appropriate serial number.				5n.6
Please search	for the compound	ls of claims 1,3	and 6. These are FKS	, 0 0
(tacrolimus) derivatives	s which bind in	munophilins.		
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STAFF USE ONLY	Type of Search	Vendors and	cost where applicable	
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PTO-1590 (8-01)

=> fil reg

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STRUCTURE FILE UPDATES: 1 JUN 2005 HIGHEST RN 851509-21-2 DICTIONARY FILE UPDATES: 1 JUN 2005 HIGHEST RN 851509-21-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 14:51:13 ON 02 JUN 2005
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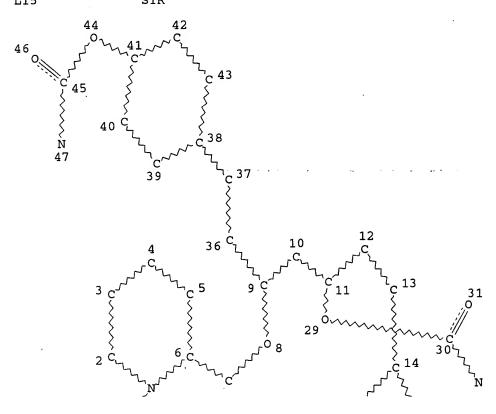
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FILE COVERS 1907 - 2 Jun 2005 VOL 142 ISS 23 FILE LAST UPDATED: 1 Jun 2005 (20050601/ED)

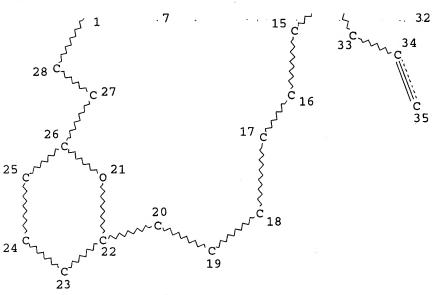
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que 118 3682 SEA FILE=REGISTRY ABB=ON PLU=ON NC2OC13OC3/ESS L15



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Page 2-A
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STEREO ATTRIBUTES: NONE

L17 4 SEA FILE=REGISTRY SUB=L1 SSS FUL L15 L18 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L17

=> d l18 ibib abs hitstr 1-3

L18 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: (1994:298362 HCAPLUS

DOCUMENT NUMBER: 120-298362

TITLE: Water-soluble mac<u>rocyclic lact</u>ones as

immunosuppressants and their preparation
INVENTOR(S): Harada, Setsuo; Tanida, Seiichi; Funahashi, Yasunori

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
лр 05294973	A2	19931109	JP 1991-162806	19910703
JP 3138872	B2	20010226	31 1991 102000	13310703
PRIORITY APPLN. INFO.:			JP 1990-179760 A1	19900706
OTHER SOURCE(S):	MARPAT	120:298362		

AB The title compds. I (≥1 of R1-R3 is <u>basic group-containing carbamoyl</u> and the rest is H or protective group) and their salts, useful as immunosuppressants, are prepared by treating I (≥1 of R1-R3 is activated ester and the rest is H or protective group) with basic group-containing amines and optional deprotection of the OH group(s). A solution

Ι

of 3.20 g FK 506 in CH2Cl2 was treated with ClCO2CHClMe and pyridine at 0° to give 4.03 g I. (R1 = Me., R2 = R3 = CO2CHClMe), 1.27 g of which

was stirred with 0.67 mL ethylenediamine in CH2Cl2 at 0° for 3.5 h to give, after treatment with 0.1 N HCl and 8% isobutanol-H2O, 1.10 g I.2HCl (R1 = Me, R2 = R3 = CONHCH2CH2NH2), which showed physiol. saline solubility 15.4 mg/mL and inhibited ConA-induced blastogenesis of spleen cells at IC50 of 41.8 ng/mL.

IT 154591-73-8P 154634-68-1P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, water-soluble, as immunosuppressant)

RN 154591-73-8 HCAPLUS

CN

Carbamic acid, (2-aminoethyl)-, 4-[2-[5-[[[(2-aminoethyl)amino]carbonyl]oxy]-1,4,5,6,7,8,11,12,13,14,15,16,17,18,19,20,2 1,23,24,25,26,26a-docosahydro-19-hydroxy-14,16-dimethoxy-4,10,12,18-tetramethyl-1,7,20,21-tetraoxo-8-(2-propenyl)-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosin-3-yl]-1-propenyl]-2-methoxycyclohexyl ester, [3S-[3R*[E(1S*,2S*,4S*)],4S*,5R*,8S*,9E,12R*,14R*,15S*,16R*,18S*,19S*,26aR*]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 2-A : OMe

PAGE 1-A

RN 154634-68-1 HCAPLUS

CN Carbamic acid, (2-aminoethyl)-, 4-[2-[5-[[[(2-aminoethyl)amino]carbonyl]oxy]-1,4,5,6,7,8,11,12,13,14,15,16,17,18,19,20,2 1,23,24,25,26,26a-docosahydro-19-hydroxy-14,16-dimethoxy-4,10,12,18-

MeŌ

 $\label{lem:condition} $$ \text{tetramethyl-1,7,20,21-tetraoxo-8-(2-propenyl)-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosin-3-yl]-1-propenyl]-2-methoxycyclohexyl ester, dihydrochloride, [3S-[3R*[E(1S*,2S*,4S*)],4S*,5R*,8S*,9E,12R*,14R*,15S*,16R*,18S*,19S*,26aR*]]- (9CI) (CA INDEX NAME)$

Absolute stereochemistry.

Double bond geometry as shown.

PAGE 1-A

PAGE 2-A
MeO OMe

● 2 HCl

L18 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:194038 HCAPLUS

DOCUMENT NUMBER: 116:194038

TITLE: Preparation of tricyclic macrocycles as

immunosuppressants and antimicrobials

INVENTOR(S): Kasahara, Chiyoshi; Ohkawa, Takehiko; Hashimoto,

Masashi

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 29 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9113899	A1	19910919	WO 1991-JP314		19910308
W: JP, US RW: AT, BE, C	H. DE. DK	. ES. FR.	GB, GR, IT, LU, NL,	SE	
	•		JP 1991-505321		19910308
PRIORITY APPLN. INFO.:			GB 1990-5521	Α	19900312
			GB 1990-17450	Α	19900809
			WO 1991-JP314	W	19910308

OTHER SOURCE(S):

MARPAT 116:194038

GΙ

The title compdet I(([R] = R1NHCO2; (R1) = H, (substituted) C1-6 alkyl,AΒ (substituted) (aryl;) R2 = H, (protected) hydroxy; R3 = Me, Et, Pr, allyl; R4 = OH, alkoxy; R5 = O, (H, OH), (H, alkoxy); X = O, (H, OH); n = 1, 2; dotted line is optional double bond] were prepared as immunosuppressants and antimicrobials. Thus I (R = OH; R2 = H; R3 = ally1; R4 = OH; R5 = (MeO, H); X = O; n = 2; double bond in 14-position and pyridine were dissolved in anhydrous CH2Cl2 and treated with PhN:C:O to give title compound I (R = PhNHCO2, all other defined as above for reactant). A different I (R = 4-ClC6H4NHCO2; optional double bond at 14-position absent; all others defined as above) had IC50 of 1.4 + 10-8 M against in vitro mixed lymphocyte reaction.

IT 137959-62-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as immunosuppressant and antimicrobial)

RN 137959-62-7 HCAPLUS

Carbamic acid, (3-hydroxypropyl)-, 4-[2-[1,4,5,6,7,8,11,12,13,14,15,16,17, CN

18,19,20,21,23,24,25,26,26a-docosahydro-19-hydroxy-5-[[[(3-hydroxypropyl)amino]carbonyl]oxy]-14,16-dimethoxy-4,10,12,18-tetramethyl-1,7,20,21-tetraoxo-8-(2-propenyl)-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosin-3-yl]-1-propenyl]-2-methoxycyclohexyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

OMe OMe

L18 ANSWER (3) OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1991:582958 HCAPLUS

DOCUMENT NUMBER:

115:182958

TITLE:

Preparation of macrocyclic compounds as

immunosuppressants

INVENTOR(S):

Donald, David Keith; Hardern, David Norman; Cooper, Martin Edward; Furber, Mark; Hashimoto, Masashi;

Kasahara, Chiyoshi; Ohkawa, Takehiko

PATENT ASSIGNEE(S):

Fisons PLC, UK; Fujisawa Pharmaceutical Co., Ltd.

SOURCE:

PCT Int. Appl., 42 pp.

DOCUMENT TYPE:

CODEN: PIXXD2
Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 9102736	A1 19910307	WO 1990-GB1262	19900810
W: AU, CA, FI,	HU, JP, KR, NO,	SU, US	•
RW: AT, BE, CH,	DE, DK, ES, FR,	GB, IT, LU, NL, SE	
AU 9062866	A1 19910403	AU 1990-62866	19900810
EP 487593	A1 '19920603	EP 1990-912790	19900810
R: AT, BE, CH,	DE, DK, ES, FR,	GB, IT, LI, LU, NL, SE	
JP 05504944	T2 19930729	JP 1990-512176	19900810
ZA 9006509	A 19910424	ZA 1990-6509	19900816
CN 1049503			19900818
PRIORITY APPLN. INFO.:	•	GB 1989-18927	A 19890818
		GB 1989-22653	A 19891009
		GB 1990-12426	A 19900604
		WO 1990-GB1262	A 19900810

OTHER SOURCE(S):

MARPAT 115:182958

GΙ

The title compds. I (R1 = H, OH, alkoxy, R7CO2; R2 = H; or R1R2 = bond; R3 = Me, Et, Pr, etc.; R4 = OH, alkoxy; R5 = OH, MeO; R6 = OH, alkoxy, R8CO2; R7, R8 = alkyl, aryl, NH2, etc.; n = 1 or 2; a proviso is given) were prepared Treatment of 14-acetoxy-12-[2-(4-acetoxy-3-methoxycyclohexyl)-1-methylvinyl]-17-allyl-23,25-dimethoxy-13,19,21,27-tetramethyl-1,2-thioxomethylenedioxy-11,28-dioxa-4-azatricyclo[22.3.1.04,9]octacos-18-ene-3,10,16-trione with tributyltin hydride in refluxing toluene containing AIBN gave a product which was treated with aqueous HCl to give I (R1 = R6 = AcO, R2 = H, R3 = allyl, R4 = OH, R5 = MeO, n = 2) which in vitro exhibited IC50 of 2.4 + 10-8 M against the mixed lymphocyte reaction.

IT 134695-39-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of, as immunosuppressant)

RN 134695-39-9 HCAPLUS

CN

Carbamic acid, (4-chlorophenyl)-, 4-[2-[5-[[[(4-chlorophenyl)amino]carbonyl]oxy]-1,4,5,6,7,8,11,12,13,14,15,16,17,18,19,20,21,23,24,25,26,26a-docosahydro-19-hydroxy-14,16-dimethoxy-4,10,12,18-tetramethyl-1,7,21-trioxo-8-(2-propenyl)-15,19-epoxy-3H-pyrido[2,1-c][1,4]oxaazacyclotricosin-3-yl]-1-propenyl]-2-methoxycyclohexyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

Searched by Paul Schulwitz 571-272-2527

=> fil marpat

FILE 'MARPAT' ENTERED AT 15:00:22 ON 02 JUN 2005
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FILE CONTENT: 1988-PRESENT (VOL 142 ISS 22) (20050527/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

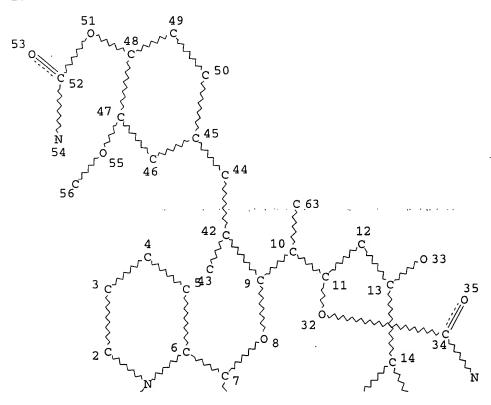
US 6864386 08 MAR 2005
DE 10337309 10 MAR 2005
EP 1518545 30 MAR 2005
JP 2005060524 10 MAR 2005
WO 2005037841 28 APR 2005

Structure search limits have been raised. See HELP SLIMIT for the new, higher limits.

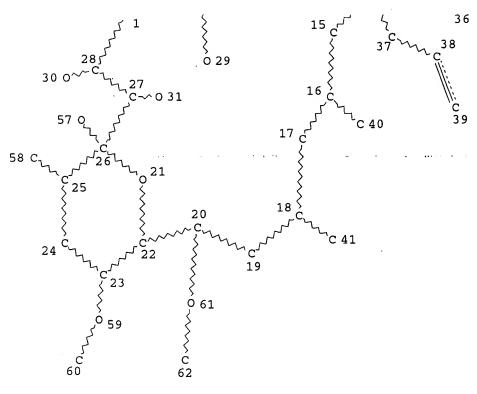
New CAS Information Use Policies, enter HELP USAGETERMS for details.

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Page 1-A

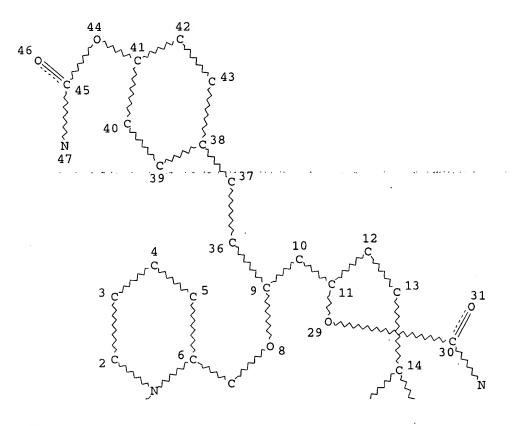


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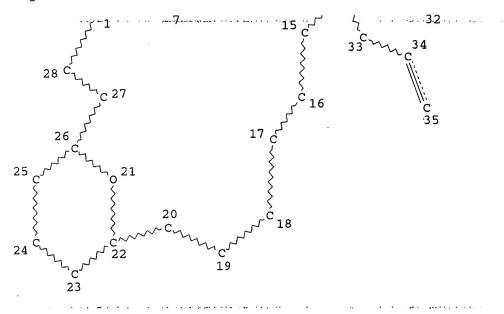
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DEFAULT ECLEVEL IS LIMITED
GRAPH ATTRIBUTES:
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RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 47

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STEREO ATTRIBUTES: NONE
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4 SEA FILE=REGISTRY SUB=L1 SSS FUL L15
L17
L18
             3 SEA FILE=HCAPLUS ABB=ON PLU=ON L17
            16 SEA FILE=MARPAT SSS FUL L3
L22
L23
            13 SEA FILE=MARPAT ABB=ON PLU=ON L22 NOT L18
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L23 ANSWER 1 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

129:207222 MARPAT

TITLE:

Pharmaceutical compositions containing tricyclic

compounds

INVENTOR(S):

Yamanaka, Masayuki; Shimojo, Fumio; Ueda, Satoshi;

Toyoda, Toshihiko; Ibuki, Rinta; Ohnishi, Norio

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PAT	ENT	NO.		KII	ND	DATE			. AI	PL	CATI	ON N	ο.	DATE				
-																			
		W:		BR,				ТĻ,	JP,	KR,	MX,	NO,	SG,	US,	, AM,	AZ,	BY,	KG,	
				, MD,															
				, BE,														PT,	SE
(TW	4508	810		В		2001	0821		TV	V 19	98-8	7102	169	1998	0217			
1	CA	2282	2345		A	A	1998	0827		CF	1 19	98-2	2823	45	1998	0218			
	AU	9862	2289		A:	L	1998	0909		JΑ	1 19	98-6	2289		1998	0218			
	AU	7273	337		B	2	2000	1207							_				
	ΕP	9779	565		A:	L	2000	0209		E	19	98-9	0436	6	1998	0218			
	EP	977	565		B:	l	2003	0416											
		R:	AT	, BE,	CH,	DE,	, DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	, NL,	SE,	PT,	ΙE,	FI
	BR	980	7234	739	Α		2000	0425		BF	19	98-7	234		1998	0218			
1	JР	2000	05137	739	T	2	2000	1017		JI	2 19	98-5	3648	2	1998	0218			
	JP.	339	6888.	/ - /	B	2	2003	0.414	٠										
	AT	2373	325	der var. Mannert	E		2003	0515		ΑT	19	98-9	0436	6	1998	0218			
	ES	2193	3515		\mathbf{T}_{i}^{2}	3	2003	1101		ES	3 19	98-9	0436	6	1998	0218			
	PT	977	565		\mathbf{T}		2004	0130		PΊ	19	98-9	0436	6	1998	0218			
	$_{ m IL}$	1312	298		A:	1	2004	0620		II	19 د	98-1	3129	8	1998	0218			
'	z_{A}	980:	1391		Α		1998	0824		ZP	1 19	998-1	391		1998	0219			
]	MΧ	990	7451		Α		2000	0228		MΣ	19	99-7	451		1999	0812			
]	NO	9904	4003		Α		1999	1019		NO	19	99-4	003		1999	0819			
1	US	2002	20322	212	A:	L	2002	0314		US	19	99-3	6769	8	1999	0820			
PRIOR	ITY	API	PLN.	INFO	. :					JI	19	97-3	6172		1997	0220			
										JI	19	97-2	5635	7	1997	0922			
															1998		•		
7. 73	7	h	~~~	. + 4	1 ~~						_ +		-1:-			a	4+-		

A pharmaceutical composition comprising a tricyclic compound or its ·AB pharmaceutically acceptable salt, an oil substance, a surfactant, a hydrophilic substance, water, and optionally a pH control agent, with enhanced stability, absorbability and/or a low irritation potential, is provided. A cream contained FK506 0.1, iso-Pr myristate 25.0, polyoxyethylene cetyl ether 5.0, water 68.9, and Carbopol940 1.0%. The area under the blood concentration-time curve over 0-24 hors after transdermal application to the mice was >30 ng.h.mL.

MSTR 1

G10 = CH2CH=CH2

G12 = C(0)

G16 = alkyl / Me

G17 = OMe

G19 = 82

$$G21 = 88$$

$$G23 = C(0)$$
 $G25 = 6-5 7-8$

= (1-2) CH2

DER: or pharmaceutically acceptable salts

MPL: claim 1

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 - ANSWER-2-OF-13- MARPAT-COPYRIGHT 2005 ACS-on-STN

ACCESSION NUMBER: 126:297667 MARPAT

Aerosol compositions containing triglycerides and TITLE:

tricyclic compounds

INVENTOR(S): Murata, Saburo; Shimojo, Fumio; Tokunaga, Yuji; Hata,

Takehisa

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: DAMENIO NO

PATENT NO.	KIND.	DATE	AP	PLICATION NO.	DATE			
WO 9710806 W: AU, CA,				1996-JP2670	19960918			
				GB, GR, IE, IT	. LU. MC.	NL.	PT.	SE
CA 2232378							,	
ZA 9607887								
AU 9669998 AU 719613	B2	20000511						
JP 09143054	A2	19970603	JР	1996-246053	19960918			
JP 3266005								
EP 851753	A1	19980708	EP	1996-931227	19960918			
EP 851753								
R: AT, BE,				GR, IT, LI, LU	, NL, SE,	PT,	IE,	FI
				1996-198166			·	
JP 2000505050	T2	20000425	JP	1997-512589	19960918			
JP 3362394	B2	20030107						
JP 3362394 AT 254450	E	20031215	TA	1996-931227	19960918			
PT 851753	${f T}$	20040430	PT	1996-931227	19960918			
PT 851753 ES 2206590 TW 429153	Т3	20040516	ES	1996-931227	19960918			
TW 429153	В	20010411	TW	1996-85111460	19960919			
US 6361760	B1	20020326	US	1998-29863	19980422			
HK 1017845	A1	20041210	HK	1999-102062				
US 2002061906	A1	20020523	US	2001-994702	20011128			
US 6524556	B2	20030225						
PRIORITY APPLN. INFO	.:		JP	1995-239342	19950919			
بيسم والمراط ووالتعليب والتالي والتالي	e naskadanski ge samon en e e			1996-JP2670	19960918			
			US	1998-29863	19980422			

The use of a medium-chain fatty acid triglyceride as the dispersant in the preparation of a medicinal aerosol composition comprising a tricyclic compound such as

FK 506 dispersed in a liquefied hydrofluoroalkane propellant is described. When a liquefied hydrofluoroalkane is added to a kneaded premix of the tricyclic compound and a medium-chain fatty acid triglyceride, the active ingredient is evenly dispersed in the liquefied hydrofluoroalkane. Therefore, by distributing a dispenser first with the kneaded premix and, then, with a liquefied hydrofluoroalkane under cooling or elevated pressure, an aerosol composition is obtained having an improved uniformity of content of the active ingredient. Thus, an aerosol was prepared containing FK 506 506 10 mg, Miglyol 812 25 mg, and HFA-27 5 mL.

MSTR 1B

$$G7 = 56$$

G9 = OH

= CH2CH=CH2 G10

= C(0)G12

G16 = alkyl / Me

= OMe G17

G19 = 82

-G8

G21 = 88

88----CH2--O-----CH2--CH2--OMe

G23 = C(0) G25 = 6-5 7-8

G12 |6 G10 C 7 G16

MPL: claim 1

L23 ANSWER 3 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 123:350482 MARPAT

TITLE: Method for assaying calcineurin-inhibiting

immunosuppressants

INVENTOR(S): Kobayashi, Masakazu; Tamura, Kouichi
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
			WO 1995-JP372	
			GB, GR, IE, IT, LU	
CA 2185105	AA	19950914	CA 1995-2185105	19950308
AU 9518617	A1	19950925	AU 1995-18617	19950308
AU 686762	B2	19980212		
EP 750193	A1	19961227	EP 1995-910762	19950308
EP 750193	B1	20021127		
R: AT, BE,	CH, DE	, DK, ES, FR,	GB, GR, IE, IT, LI	, LU, NL, PT, SE
		19970416	CN 1995-192949	19950308
AT 228657	E	20021215	AT 1995-910762	19950308
JP 3551431	B2	20040804	JP 1995-523355	19950308
US 6338946	B1	20020115	US 1999-457395	19991209
PRIORITY APPLN. INFO	.:		JP 1994-39534	19940310
			, WO 1995-JP372	
			US 1996-702549	19961024

AB This invention relates to a method and kit for assaying calcineurin-inhibiting immunosuppressants (e.g. FK506 and cyclosporin A) by determining a complex containing immunophilin, calcineurin, calmodulin, calcium

ions and test immunosuppressant. Using the above method and kit, it is --possible-to-determine more accurately the total-concentration of the substances actually having the immunosuppressant effect in the determination of the blood level of calcineurin-inhibiting immunosuppressants.

MSTR 1

```
G11

CH Me G9

G13

G8

G7

G10

OMe Me

OMe Me

OMe MeO
```

G1 = 51

59----G2

G2 . = CONH2 (SO) G7 = 59

_Q----G2

G10 = CH2CH=CH2

G11 = 64

нс——G12 64

G12 = OMe

G13 = (1-2) CH2

MPL:----claim-3

NTE: substitution is restricted

L23 ANSWER 4 F 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 123:55593 MARPAT

TITLE: FR 520 derivatives as immunosuppressants

INVENTOR(S): Baumann, Karl

PATENT ASSIGNEE(S): Sandoz-Patent-GmbH, Germany

SOURCE: Ger. Offen., 19 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE:

German

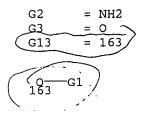
FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4336458	A1	19950427	DE 1993-4336458	19931026
PRIORITY APPLN. INFO.	:		DE 1993-4336458	19931026

AB FR 520 derivs. substituted in the 33-position by carbamoyl, thiocarbamoyl, carbonate, or thiocarbonate groups were prepared for use as immunosuppressants (no data). Thus, 24-O-tert-butyldimethylsilyl-FR 520 was treated with ClCO2CCl3 to give the 33-carbamoyl derivative which was desilylated with HF.

MSTR 1



G15 = CH2CH=CH2 MPL: claim 1 2 consourers

L23 ANSWER 5 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBÉR: 122:115005 MARPAT

TITLE: Anti-proliferative lotions containing tricyclic

compounds

INVENTOR(S): Kagayama, Akira; Tanimoto, Sachiyo; Murata, Saburo;

Hata, Takehisa

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: LANGUAGE: Patent Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PA	TENT	NO.		KI	ND	DATE			AP	PLIC.	ATIO	N NO).	DATE			
	WO						1994 KR,			WO	199	4-JP	863		19940	530		
			•	•		,	•		FR,	GB, (GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE
	JP	0634	5646		A:	2	1994	1220		JP	199	3-13	7924	1	19930	0608		
	CA	2164	838		A.	Α.	1994	1222		CA	199	4-21	6483	8 8	19940	0530		
	ΑU	9468	162		A:	1	1995	0103		AU	199	4-68	162		19940)530		
	ΑU	6842	86		B:	2	1997	1211	•									
	CN	1124	925		Α		1996	0619		CN	199	4-19	2387	7	19940	0530		
	CN	1100	538		В		2003	0205										
	EP	7532	97		A:	1	1997	0115		EP	199	4-91	6418	3	19940	0530		
	EP.	7532	97	to each advanced	B:	1~	.5.0.0.5.	0'9'25				-:						
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, G	GR,	ΙE,	IT,	LI,	LU,	NL,	PT,	SE
	AT	2247	10		E		2002	1015		AT	199	4-91	6418	3	19940	0530		
	ES	2179					2003	0116		ES	199	4-91	6418	3	19940	0530		
	PT	7532	97	•	T		2003	0228		PT	199	4-91	6418	3	19940	0530		
	US	5939	427		Α		1999	0817		US	199	8-28	87		19980	105		
PRIC	RIT	Y APP	LN.	ÌNFO	. :					JP	199	3-13	7924	1	19930	0608		
										WO	199	4-JP	863		19940)530		
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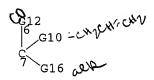
AB A lotion comprises a tricyclic compound represented by 17-allyl-1,14-dihydroxy-12-[2-(4-hydroxy-3-methoxycyclohexyl)-1-methylvinyl]-23-25,-dimethoxy-13,19,21,27-trimethyl-11,28-dioxa-4-azatricylo[22.3.1.04,9]octacos-18-ene-2,3,10,16-tetrone or a pharmaceutically acceptable salt thereof, a dissoln./absorption promoter, a liquid medium, and optionally an emulsifying agent or a mixture thereof with a thickening agent. The lotion is stable and excellent in absorbability, scarcely irritates the skin, and can be sustainedly released. It is useful for treating and preventing inflammatory and proliferative dermatoses and immunol. mediated skin diseases. For example, a lotion containing FK 506 100 mg, iso-Pr myristate 1 mL, and ethanol 4 mL was formulated.

MSTR 1B

$$G7 = 56$$



$$G23 = C(0)$$
 $G25 = 6-5 7-8$



DER: or pharmaceutically acceptable salts

MPL: claim 1

L23 ANSWER 6 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 119:34331 MARPAT

TITLE: Liposome preparation containing immunosuppressant

tricyclic compound

INVENTOR(S): Kagayama, Akira; Tokunaga, Yuji; Kaibara, Atsunori;

Tanimoto, Sachiyo; Hata, Takehisa

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 33 pp.

DOCUMENT TYPE:

CODEN: PIXXD2

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9308802	A1	19930513	WO 1992-JP1388	19921026
W: CA, JE	KR, US			
RW: AT, BE	C, CH, DE	, DK, ES, FR,	GB, GR, IE, IT, LU	, MC, NL, SE
EP 658344	A1	19950621	EP 1992-921787	19921026
EP 658344	B1	20000105		
R: AT, BE	CH, DE	, DK, ES, FR,	GB, GR, IE, IT, LI	, LU, NL, SE
AT 188378	E	20000115	AT 1992-921787	19921026
ES 2140419	T 3	20000301	ES 1992-921787	19921026
CA 2122344	С	20040420	CA 1992-2122344	19921026
US 5817333	Α	19981006	US 1995-446305	19950522
GR 3032319	Т3	20000427	GR 1999-403375	20000107
PRIORITY APPLN. INF	·O . :		JP 1991-313422	19911031
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			US 1994-211834	19940429

AB A liposome formulation contains a tricyclic compound such as 17-allyl-1,14-dihydroxy- 12-[2-(4-hydroxy-3-methoxycyclohexyl)-1-methylvinyl]-23,25-dimethoxy-13,1921,27-tetramethyl-11,28-dioxa-4-azatricyclo[22.3.1.04,9]octacos-18-ene-2,3,10,16-tetraone (FK 506) and its analog, encapsulated by liposomal membrane. Egg yolk phosphatidylcholine, cholesterol, phosphatidylserine, FK 506 were dissolved in a CHC13/MeOH mixture, dried under reduced pressure to form thin membranes, treated with a phosphate buffer to give a liposome suspension, and finally filtered to isolate liposome particles containing FK 506.

MSTR 1A

G7 = 51

_Q----G8

```
G8
          Doweralkylaminocarbonyl (SO (1-) G27)
G9
         ∕ена∕сн=сн2
G10
       = (1-3) CH2
G13
G14
       = OH
G18
       = alkyl / Me
G19
       = OMe
G20
       = acyloxy
G22
       = 93
```

0----G8

G34 = C(0)

DER: or pharmaceutically acceptable salts

MPL: claim 1

L23 ANSWER 7 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 117:124480 MARPAT

TITLE: Enhancers for antitumor activity of

azatricyclooctacosaene derivatives

INVENTOR(S): Tsuruo, Takashi

PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	. DATE		
JP 03240726	A2	19911028	JP 1990-34571	19900215		
PRIORITY APPLN. INFO.	:		JP 1990-34571	19900215		

The title neoplasm inhibitor enhancers contain compds. I [R1 = (protected) OH; R2 = H, (protected) OH; R3 = Me, Et, Pro, allyl; R4 = OH, OMe; R5 = H, oxo (with R4); n = 1, 2 integer; the symbol shown by a solid line and a broken line (SL) means a single bond or a double bond; R2 ≠ protected OH when R4 = OH and R5 = H, or R4 and R5 = oxo] or their pharmaceutically acceptable salts. I are known immunosuppressants and increase the intracellular I concns. in chemotherapy. FK506 (I: R1 = OH, R2 = OH, R3 = allyl, R4 = OMe, R5 = H, n = 2, SL = single bond) enhanced the leukemia cell-inhibiting activity of vincristine as reflected by the 50% inhibition concns. FK506 at 100 mg/kg i.p. caused no mortality in mice. FK506 (1 g) was dissolved in 10 mL EtOH, mixed with 1 g hydroxypropyl Me cellulose 2910 (TC-5T), 5 mL CH2C12, 2 g lactose, and 1 g AcDiSol, dried, and pulverized to give 5 g solid solution composition

Ι

MSTR 1

= 54 G1

74 (O)·NH---G15

G3 = 56

G4 = CH2CH=CH2

G5 = OMe

G9 = (1-2) CH2

or pharmacologically acceptable salts

MPL: substitution is restricted NTE:

L23 ANSWER 8 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

116:235667 MARPAT

TITLE:

Preparation of dioxaazatricyclooctacosenetetraone Kasahara, Chiyoshi; Ohkawa, Takehiko; Hashimoto,

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: Brit. UK Pat. Appl., 26 pp.

CODEN: BAXXDU

DOCUMENT TYPE:

INVENTOR(S):

Patent

LANGUAGE: FAMILY ACC. NUM. COUNT: English

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
					
GB 2244991	A1	19911218	GB 1990-12963	19900611	
PRIORITY APPLN.	INFO.:		GB 1990-12963	19900611	
GI					

Title compds. I (R1 = H, acyl; R2 = H, HO, acyloxy; R3 = Me, Et, Pr, allyl; R4 = HO, alkoxy; A = CH2, CO; n = 1, 2; dotted line = optional double bond) and salts thereof, useful for treating or preventing resistance to transplantation, graft-vs-host diseases by medulla ossium, autoimmune diseases and infectious diseases (no data), are prepared To a solution of 1-hydroxy-12-[2-(4-hydroxy-3-methoxycyclohexyl)-1-methylvinyl]-23,25-dimethoxy-13,19,21,27-tetramethyl-11,28-dioxa-17-propyl-4-azatricyclo[22.3.1.04,9]octacos-18-ene-2,3,10,16-tetraone in C6H6 were added ethylene glycol and p-MeC6H4SO3H successively, the mixture refluxed azeotropically for 8 h to give the appropriate 16-ethylene acetal, which was then oxidized, dehydrogenated twice, and deacetalated to give I (R1 = R2 = H, R3 = Pr, R4 = HO, A = CO, n = 2, no addnl. double bond).

MSTR 1

-G10

G2 = 56

G3 = CH2CH=CH2

G4 = OH G5 = C(0)

= (1-2) CH2

= 73

73 (O)·NH---G18

DER: and salts MPL: claim 1

L23 ANSWER 9 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

116:173897 MARPAT

TITLE:

Preparation of tricyclic compounds as immunosuppressants and antimicrobials

INVENTOR(S):

Kasahara, Chiyoshi; Ohkawa, Takehiko; Hashimoto,

Masashi

PATENT ASSIGNEE(S):

Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9200313	A1	19920109	WO 1991-JP811	19910618
W: JP, US				
RW: AT, BE,	CH, DE	, DK, ES, FR,	GB, GR, IT, LU, NL	, SE
EP 536401	A1	19930414	EP 1991-911075	19910618
R: CH, DE,	FR, GB	, IT, LI		
JP 06501920	T2	19940303	JP 1991-510112	19910618
PRIORITY APPLN. INFO	.:		GB 1990-14136	19900625
The first section of the section of present the second resident and section and fifth a section of the section		make any other to in the first on the first of	- WO 1991-JP811	-19910618
GI			·	

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- Tricyclic compds. [I; R1 = H, acyl; R2 = H, OH, alkoxy, acyloxy; R3 = C3-7 alkyl, aralkyl, alkenyl, etc.; R4 = OH, alkoxy; R5 = H, R6 = OH, MeO; R5R6 = oxo; A = CH2, CO, CH(OH); n = 1, 2; dotted line = optional double bond] are prepared Hydroxylation of 2.57 g allyl compound II (R = vinyl) with OsO4 gave 1.91 g dihydroxypropyl derivative II [R = HOCH2CH(OH)], which (220 mg) was oxidized with NaIO4 to give 220 mg aldehyde II (R = CHO) (III). Wittig reaction of 150 mg III with BuP+Ph3 Br- in Et2O gave 38 mg hexenyl derivative II (R = CH:CHPr), which (32 mg) was hydrogenated over Rh-Al2O3 to give 25 mg hexyl derivative II (R = pentyl). I (R1 = Me, R2 = R4 = R5 = OH, R3 = 1-propenyl, R6 = H, A = CO, n = 2, dotted line = single bond) showed IC50 of 4.1 + 10-9M in suppression of in vitro mixed lymphocyte reaction.

MSTR 1

G1 = 69

60----C(O)-NH----G15

G2 = 90

90-C(0)-NH-G15

G3 = alkenyl < (3-7) >

G8 = OH G10 = OMe G11 = CHOH

G12 = (1-2) CH2

DER: or pharmaceutically acceptable salts

MPL: claim 1

L23 ANSWER 10 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

116:104486 MARPAT

TITLE:

TAN-1313, its acyl derivatives, and water-soluble

preparations containing them

INVENTOR(S):

Tanida, Seiichi; Harada, Setsuo

PATENT ASSIGNEE(S):

Takeda Chemical Industries, Ltd., Japan

SOURCE: J

Jpn. Kokai Tokkyo Koho, 11 pp.

DOCUMENT TYPE:

CODEN: JKXXAF Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE.	APPLICATION NO.	DATE
JP 03178978	A2	19910802	JP 1990-262665	19900928
JP 3054741	B2	20000619	TD 1000 05(101	10000000
PRIORITY APPLN. INFO.	:		JP 1989-256191	19890929

Ι

AB TAN-1313 (I; R1-3 = OH) (II) and its triacyl derivs. I (R1-3 = acyloxy), useful as immunosuppressants, are manufactured from FK506. II is manufactured from

FK506 with culture media of Streptomyces or Amycolatopsis or their prepns. I (R1, R2, R3 = H, OH, OR; R = organic residue) is solubilized in water using cyclic polysaccharides. S. tolypophorus IFO 1315 was precultured in a medium containing glucose, tryptone, and yeast extract at 28° for 48 h, cultured in the same medium at 28° for 24 h, mixed with MeOH solution of FK506, and further cultured for 24 h to produce 220 mg II from 20 L medium. Crude II (.apprx.80 mg) in pyridine was treated with Ac20 at room temperature for 7 h to give 25 mg II triacetyl derivative

MSTR 2

G1 = 59

59 --- G2

G2 = aralkyl (SO (1-) G6) / 61

c(0)·G3

G3 = NH2 MPL: claim 3

L23 ANSWER 11 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 13

116:76365 MARPAT

TITLE:

Methods for treating and preventing inflammation of mucosa and blood vessels using FK 506 and related

compounds

INVENTOR(S): PATENT ASSIGNEE(S): Kubes, Paul; Hunter, James; Granger, D. Neil Fujisawa Pharmaceutical Co., Ltd., Japan

SOURCE:

PCT Int. Appl., 22 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND		DATE	APPLICATION NO.	DATE
WO 9117754	A1	19911128	WO 1991-US3185	19910513

W: JP, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE US 1990-522145 19900511 PRIORITY APPLN. INFO.: GΙ

AB Macrolides I [R1 = (protected) OH; R2 = H, (protected) OH; R3 = Me, Et, Pr, allyl; R4 = H0, Me0, :0; n = 1, 2] and their salts, such as FK 506, are useful for treating or preventing the title diseases, e.g. LTB4-mediated diseases, gastric ulcers, vascular damage from ischemic diseases and thrombosis, ischemic bowel disease, inflammatory bowel disease, necrotizing enterocolitis, and burn-associated intestinal lesions. Thus, cats with exptl. intestinal ischemia showed mucosal infiltration by neutrophils (determined from mucosal myeloperoxidase activity) which was lessened by treatment with FK 506 (0.3 mg/kg/day i.m. Capsules were prepared by dissolving 1 g FK 506 in 10 mL EtOH, adding 1 g hydroxypropylmethylcellulose 2910 to form a suspension, dissolving in 5 mL CH2Cl2, adding 2 g lactose and 1 g croscarmellose Na, evaporating off the solvent, and grinding, sieving, and encapsulating the dry product.

MSTR 1D

$$G1 = 62$$

$$G2 = 72$$

72 (0)·G5

= loweralkylamino (SR (1-) CO2H)

G15 = 126

G16 = CH2CH=CH2

G17 = 120

HC--G18

G18 = OMe G19 = CH2CH2

G22 = loweralkylamino (SR (1-) CO2H)

MPL: claim 1

MARPAT COPYRIGHT 2005 ACS on STN L23 ANSWER 12 OF 13

ACCESSION NUMBER:

115:279490 MARPAT

TITLE:

Preparation of (dimethoxycyclohexyl)oxopentamethylnona decadi(tri)enoate derivatives and their lactones as immunosuppressives

INVENTOR(S):

Cooper, Martin Edward; Donald, David Keith; Tanaka,

Hirokazu

PATENT ASSIGNEE(S):

Fisons PLC, UK; Fujisawa Pharmaceutical Co., Ltd.

SOURCE:

Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

LANGUAGE:

Engli

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 444829 ·	. A2	19910904	EP 1991-301431	19910222
EP 444829	A3	19920603		
R: AT,	BE, CH, DE	, DK, ES, FR	, GB, GR, IT, LI, LU	, NL, SE
JP 04217939	A2	19920807	JP 1991-53588	19910227
US 5210227	Α	19930511	US 1991-661802	19910227
PRIORITY APPLN. I	NFO.:		GB 1990-4396	19900227
			GB 1990-9485	19900427

GΙ

AB Title compds. I [R1 = H, (protected) OH, alkoxy; R2 = H; R3 = O or H, OH; R4 = Me, Et, Pr, CH2CH:CH2; R5 = (protected) OH, alkoxy; R6 = OH; R7 = OH, alkoxy, NR8R9; R8, R9 = H, alkyl, aryl; R6 and R7 together may equal O; R1R2 may equal a double bond; with provisos] were prepared as immunosuppressives. Thus MeNH2.HCl was dissolved in MeOH and a solution of NaOH in MeOH was added. The resulting solution was added to macrolide II R1, R5 = OH; R2 = H; R3, R10 = O; R4 = allyl), followed by a solution of NaCNBH3 in MeOH. Thus solution was stirred for 1.5 h at 20° to give title compound I (R1, R5 = OH, R2 = H, R3 = O, R4 = allyl, R6 = Me, R7 = OMe). A similar I (R1 = H, R4 = Pr, all others as above) had IC50 of 1 + 10-7M against a mixed lymphocyte reaction.

MSTR 2

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

G1 = 19

19----G2

G2 = 82

82 (O) NH G18

G4 = C(0)

G5 = CH2CH=CH2

G6 = 42

DER: and pharmaceutically acceptable salts

MPL: claim 8

NTE: substitution is restricted

L23 ANSWER 13 OF 13 MARPAT COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

115:99270 MARPAT

TITLE:

Pharmaceutical compns. containing macrolide antibiotics

for the treatment of reversible obstructive airways

diseases

INVENTOR(S):

Norris, Alan Anthony; Jackson, Dale Michael; Makino,

Sohei; Fukuda, Takeshi; Akutsu; Ikuo

PATENT ASSIGNEE(S):

Fisons PLC, UK; Fujisawa Pharmaceutical Co., Ltd.

SOURCE: PCT Int. Appl., 30 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC NUM. COUNT: 1

PATENT INFORMATION:

PA'	CENT N	10.		KIND DATE				APPLICATION NO.					•	DATE
WO	90148					1990 KR,			WC	199	90-GI	3866	-	19900606
									CB	τm	T.TT	NL, S	SF	
7.0	03291													19900409
CA	20542	203		A.	A	1990	1207		C.F	1 199	30-20	15420	3	19900606
CA	20542	203		С		2001	0821							
AU	90572	214		A:	1	1991	0107		JΑ	J 199	90-57	7214		19900606
AU	63946	50		В:	2	1993	0729							
	47599								E	199	90-90	08603		19900606
EP	47599	4		В:	1	1994	0914							
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	IT,	LI,	LU, 1	NL,	SE
	05503	•		T:										19900606
JP	25089	18		B	2	1996	0619							
ES	20610)43		T	3	1994	1201		ES	199	90-90	08603		19900606
US	55190)49		Α		1996	0521		US	199	93-93	3305		19930716
PRIORIT	Y APPI	N.	INEO.	•				*** ***	, "GI	3., 19.8	391.	2.93.5	en weren en e	1989,0606
									JI	199	90-96	6045		19900409
									WC	199	90-GI	B866		19900606
									US	3 199	92-78	31190		19920127

Pharmaceuticals containing 17-allyl-1,14-dihydroxy-12-[2-(4-hydroxy-3-methoxycyclohexyl)-1-methylvinyl]-23,25-dimethoxy-13,19,21,27-tetramethyl-11,28-dioxa-4-azatricyclo[22.3.1.04,9]octacos-18-ene-2,3,10,16-tetraone and its derivs. (Markush structure given) are prepared for the treatment of reversible obstructive airways disease, particularly asthma.

MSTR 1

$$G4 = 76$$

$$G7 = 25$$

$$G9 = 25$$

$$G14 = (1-2) CH2$$

$$G15 = CH2$$

$$G20 = NH$$

DER: or pharmaceutically acceptable derivatives MPL: claim 1